Ontario

Ministry of Northern Development and Mines

Mines and Minerals Division

GEOLOGICAL DATA INVENTORY FOLIO

GDIF 596

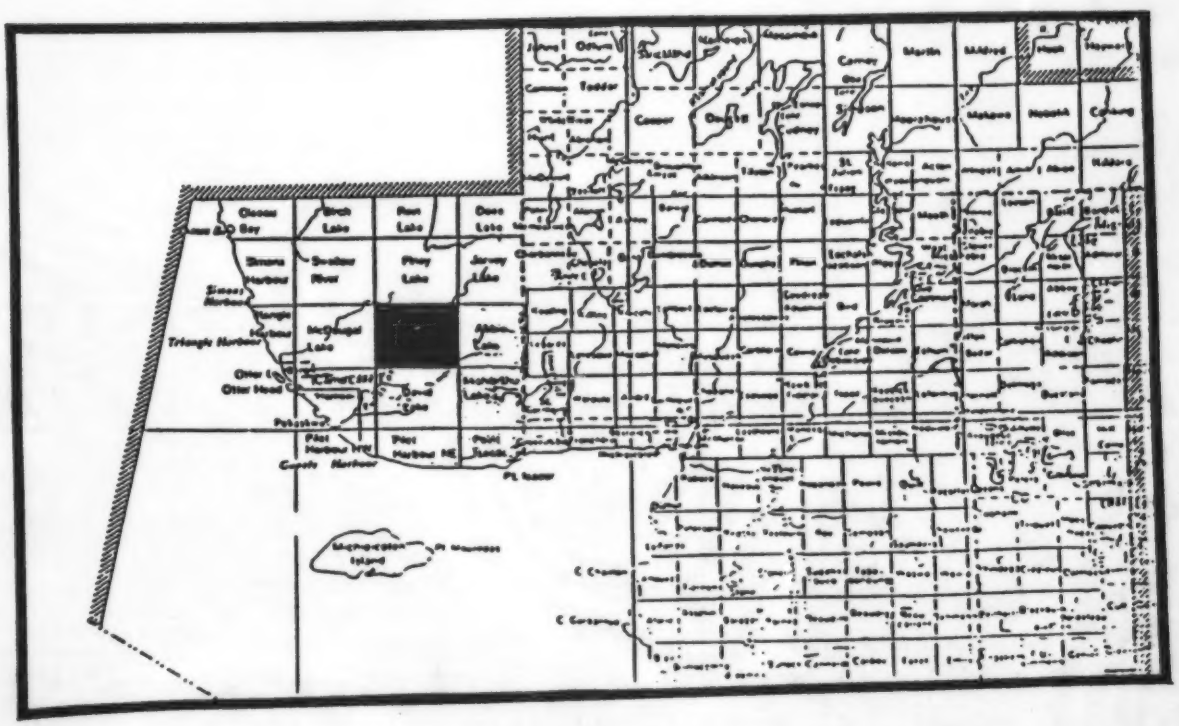
PUKASKWA RIVER AREA

Sault Ste. Marie Mining Division

N.T.S. No. 42C/04NE

Compiled by the staff of
the Resident Geologist's Office

WAWA



LOCATION MAP

Mining Claim Map Number M-13

This project was funded by the Northern Development Fund, Wawa Economic Development Initiatives.

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Ministry of Northern Development and Mines does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Wawa Resident Geologist's Office, 1991. Pukaskwa River Area, Geological Data Inventory Folio 596; compiled by the staff of the Resident Geologist's Office, Wawa.

Original Compilation by: Howson, Tim, 1986.

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Date	Page(s) Revised	Revised by

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ABBREVIATIONS LIST

A.F.R.O.	Assessment Files Research Office (Toronto)
Ann. Rept. (A.R.)	Annual Report
A.R.I.P	Aggregate Resources Inventory Paper
Bull	Bulletin
C.I.M.M.	Canadian Institute of Mining and Metallurgy
C.J.E.S.	Canadian Journal of Earth Sciences
C.M.J.	Canadian Mining Journal
Econ. Geol.	Economic Geology
E.M.R.	Department of Energy, Mines and Resources
E.P.B.	Earth Physics Branch
G.A.C.	Geological Association of Canada
GC	Geological Circular
GDIF	Geological Data Inventory Folio
Geol.	Geology
Geol. Soc. Amer. Bull.	Geological Society of American Bulletin
GR	Geoscience (Geological) Report
GSC	Geological Survey of Canada
I.L.S.G.	Institute on Lake Superior Geology
IMR	Industrial Mineral Report
I.O.C.	Report of the Iron Ore Committee (1923)
Jour. (or J)	Journal
MDC	Mineral Deposit Circular
M.D.I. (R)	Mineral Deposit Inventory (Record)
Mem	Memoir
MNDM	Ministry of Northern Development and Mines
MNR	Ministry of Natural Resources
MP	Miscellaneous Paper
MRC	Mineral Resources Circular
N.M.I.	National Mineral Inventory
NOEGTS	Northern Ontario Engineering Geology Terrain Study
NTS	National Topographic System
O.B.M.	Ontario Bureau of Mines
O.D.L.F.	Ontario Department of Lands and Forests
ODM	Ontario Department of Mines/Ontario Division of Mines
ODMNA	Ontario Department of Mines and Northern Affairs
OFR	Open File Report
OGS	Ontario Geological Survey
P.R.	Preliminary Report
Prelim. (or P)	Preliminary
R.C.	Royal Commission on Mineral Resources of Ontario (1890)
S.M.D.R.	Source Mineral Deposit Record
SOEGTS	Southern Ontario Engineering Geology Terrain Study
Sum. Rept.	Summary Report
OFM	Open File Map
OCRS	Ontario Centre for Remote Sensing
CCRS	Canada Centre for Remote Sensing
WRGO	Wawa Resident Geologist's Office

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DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no': if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	Yes	T.H.
2	Assessment Files Research Office, Toronto	Yes	A.F.R.O.
3	OGS/ODM General Index	Yes	T.H.
4	Catalogue of Airborne Geophysical Surveys (ODM)	Yes	T.H.
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	Yes	T.H.
6	ODM Industrial Mineral Reports	No	T.H.
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	No	T.H.
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	No	T.H.
9	Newspaper Clippings File	Yes	T.H.
10	GSC Index to Publications	Yes	T.H.
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	Yes	T.H.
12	OGS Index Maps	Yes	T.H.
13	Source Mineral Deposit Records (OGS)	No	T.H.
14	Author - Subject Articles File	Yes	T.H.
15	ODM/OGS Miscellaneous Papers	Yes	T.H.
16	ODM Geological Circulars	No	T.H.
17	OGS Study Series	No	T.H.
18	ODM Preliminary Reports	No	T.H.
19	ODM Bulletins	No	T.H.
20	ODM/OGS Open File Reports	Yes	T.H.
21	OGS Northern/Southern Ontario Engineering Geology Terrain Studies	Yes	T.H.
22	OGS Aggregate Resources Inventory Papers	No	T.H.
23	OGS Mineral Potential Maps	Yes	T.H.
24	Drill Core Library Catalogue	No	C.L.

*

MINERAL COMMODITIES REFERENCE LIST

anh ..... Anhydrite
ank ..... Ankerite
ap ..... Apatite
arg ..... Argentite
As ..... Arsenic
asp ..... Arsenopyrite
asb ..... Asbestos
ba ..... Barite
be ..... Beryl
Bi ..... Bismuth
bn ..... Bornite
Cd ..... Cadmium
calc ..... Calcite
carb ..... Carbonate
cc ..... Chalcocite
▲cp ..... Chalcopyrite
ch ..... Chert
clay ..... Clay
Co ..... Cobalt
cob ..... Cobaltite
Cu ..... Copper
cor ..... Corundum
dol ..... Dolomite
ep ..... Epidote
fel ..... Feldspar
fl ..... Fluorite (flurospar)
fu. ..... Fuchsite
gn. ..... Galena
gt. ..... Garnet
goe ..... Goethite
Au ..... Gold
gf ..... Graphite
gl ..... Gravel
gyp ..... Gypsum
hem ..... Hematite
Fe ..... Iron
▲IF ..... Iron Formation
jas ..... Jasper
ky ..... Kyanite
Pb ..... Lead
lim ..... Limonite
Li ..... Lithium
mgst ..... Magnesite
mag ..... Magnetite
mc ..... Malachite
Mn ..... Manganese
mb ..... Marble
mar ..... Marcasite
ma ..... Marl
mi ..... Mica
mo ..... Molybdenite
Mo ..... Molybdenum
mon ..... Monazite
ne .... Nephelite (nepheline)
Ni ..... Nickel
Nb ..... Niobium
Pd ..... Palladium
pent ..... Pentlandite
Pt ..... Platinum
py ..... Pyrite
pyl ..... Pyrochlore
▲po ..... Pyrrhotite
q ..... Quartz
qcv .. Quartz carbonate vein
ra ..... Radioactive minerals
RE ..... Rare Earths
sd ..... Sand
sgl ..... Sand and gravel
ss ..... Sandstone
scap ..... Scapolite
shee ..... Scheelite
serp ..... Serpentine
sh ..... Shale
sid ..... Siderite
si ..... Silica
▲Ag ..... Silver
sl ..... Slate
sm ..... Smaltite
sod ..... Sodalite
spec ..... Specularite
sp ..... Sphalerite
spd ..... Spodumene
s ..... Sulphides
talc ..... Talc
Te ..... Tellurium
th ..... Thorite
Th ..... Thorium
ti ..... Titanite
Ti ..... Titanium
tour ..... Tourmaline
W ..... Tungsten
uran ..... Uraninite
U ..... Uranium
verm ..... Vermiculite
Zn ..... Zinc
zr ..... Zircon

ADDITIONS

*

▲ Solid triangles indicate metal and mineral occurrences shown on the accompanying maps

PUKASKWA RIVER

MINERAL OCCURRENCES			Source Min. Dep. Record	References in OGS Min. Dep. Cir. and Indus. Mineral Rpts.	Additional References and/or Remarks
Map Ref. Letter	(see Data Map) Name(s)	Mineralization			
A	Burrex Occurrence Pukaskwa River	po, cp		MRC 012, p. 309	-Showing No. 17 on ODM Map 2332 -Showing No. 1 on ODM Map P. 506
B	International Bibis Occurrence Pukaskwa River	cp, Ag		MRC 012, p. 310	-Showing No. 18 on ODM Map 2332 -Showing No. 3 on ODM Map P. 506
C	Unnamed Iron Formation Stoney Creek Iron Formation Miro Mines Ltd.	IF			-see ODM Map P. 506 -Showing No. 20 on ODM Map 2332 -see file WP-Abbie Lake-3
D	Unnamed Occurrence	IF			-see file WP-Pukaskwa River-8
E	Unnamed Occurrence	IF			-see ODM Map 2332
F	Unnamed Occurrence	IF			-see file WP-Pukaskwa River-9

PUKASKWA RIVER

TYPE OF WORK (see Files Index Map) Exploration Files		Numbers below represent the year of the work ; e.g. 68 for 1968																	
									Airborne			Ground						Other Data	
Map Ref. No.	Company/ Author (file number)	Geological	Geochemical	Trenching or Stripping	Drilling	Assay Data	Underground Work	Prospectus Notes Corresp	Mag	EM	Rad	Mag	EM	Rad	IP	Self potential	Resistivity		or footnotes
	Wasabi Resources Ltd. Chavin of Canada Ltd. O'Brien Energy and Resources Ltd. (42C/04NE 0019) (42C/04NE 0020)																	N-1	
1	International Bibis Tin Mines Ltd. (42C/04NE 0010-A1) (42C/04NE 0016-A1)			67	67	67													
2	Noranda Exploration Co. Ltd. (42C/04NE 0010-C1)											77	77						
3	Burrex Mines Prospecting Syndicate (42C/04NE 0011)	67		67				67 68					67			67			
4	King Island Mines Ltd. (42C/04NE 0012)							69 70	69	69	69								

SEE PAGE 13-1,... NOTES, FOR ITEMS LISTED BY NUMBER IN THIS COLUMN

PUKASKWA RIVER

TYPE OF WORK (see Files Index Map) Exploration Files		Numbers below represent the year of the work ; e.g. 68 for 1968																		
										Airborne			Ground						Other Data or footnotes
Map Ref. No.	Company/ Author (file number)	Geological	Geochemical	Trenching or Stripping	Drilling	Assay Data	Underground Work	Prospectus Notes Corresp		Mag	EM	Rad	Mag	EM	Rad	IP	Self Potential	Resistivity	
5	Duval International Corporation (42C/04NE 0014-A1)							76				75	75						
6	Noranda Exploration Company Ltd. (42C/04NE 0014-A1)											78	78						
7	Kerr-McGee Mines Ltd. (42C/04NE 0014-B1)																		N-2
8	Captain Consolidated Resources Ltd. (42C/04NE 0015)							84		83	83								
9	Captain Consolidated Resources Ltd. (42C/04NE 0017-A1)	83	83																
10	Miro Mines Ltd. Phelps Dodge Corp. of Canada Ltd. (42C/03NW 0011-A1)												70	70					

SEE PAGE 13-1,... NOTES, FOR ITEMS LISTED BY NUMBER IN THIS COLUMN

TYPE OF WORK (see Files Index Map) Exploration Files		Numbers below represent the year of the work ; e.g. 68 for 1968																			
										Airborne			Ground							
Map Ref. No.	Company/ Author (file number)	Geological	Geochemical	Trenching or Stripping	Drilling	Assay Data	Underground Work	Prospectus Notes Corresp		Mag	EM	Rad	Mag	EM	Rad	IP	Self Potential	Resistivity	Other Data	or footnotes
11	Tundra Gold Mines Ltd. (42C/03NW 0012)									83	83									
12	Wasabi Resources Ltd. San Paulo Exploration Inc. Harbinson, V.N. (42C/04SE 0014)							85		85	85									
13	Captain Consolidated Resources Ltd. Tee Lake Resource Ltd. (42C/04NE 0018)	84	84			84														
14	Captain Consolidated Resources Ltd. Koala Resources Ltd. (Wp-Pukaskwa River-1)	86	86			86								86						N-4
15	Captain Consolidated Resources Ltd. (WP-Pukaskwa River-2)				86	86														N-4

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PUKASKWA RIVER

TYPE OF WORK (see Files Index Map) Exploration Files		Numbers below represent the year of the work ; e.g. 68 for 1968								Airborne			Ground						Other Data or footnotes
Map Ref. No.	Company/ Author (file number)	Geological	Geochemical	Trenching or Stripping	Drilling	Assay Data	Underground Work	Prospectus Notes Corresp		Mag	EM	Rad	Mag	EM	Rad	IP	Self Potential	Resistivity	
16	Gabriel Resources Incorporated (WP-Pukaskwa River-3)									88	88								N-4
17	Villeneuve Resource Ltd. (WP-Pukaskwa River-4)									88	88								N-4
18	Koala Resources Ltd. (WP-Pukaskwa River-5)	88	88		88	88							88	88					N-4
19	Villeneuve Resources Ltd. (WP-Pukaskwa River-7)									89	89								N-4
20	Villeneuve Resources Ltd. (WP-Pukaskwa River-8)	88	88			88													N-4
21	Villeneuve Resources Ltd. (WP-Pukaskwa River-9)	88	88	88	88	88							88	88					N-4

SEE PAGE 13-1,... NOTES, FOR ITEMS LISTED BY NUMBER IN THIS COLUMN

TYPE OF WORK (see Files Index Map) Exploration Files		Numbers below represent the year of the work ; e.g. 68 for 1968																	
										Airborne			Ground						
Map Ref. No.	Company/ Author (file number)	Geological	Geochemical	Trenching or Stripping	Drilling	Assay Data	Underground Work	Prospectus Notes Corresp	Other Data or footnotes	Mag	EM	Rad	Mag	EM	Rad	IP	Self potential	Resistivity	
22	Rise Resources Ltd. (WP-Abbie Lake-3)								N-4	88	88								
23	Daiwan Engineering Ltd. (WP-Pukaskwa River-10)								N-4	89	89								
24	Tundra Gold Mines Ltd. (42C/03NW 0016)	85	85			85								85					
25	Tundra Gold Mines Ltd. (42C/03NW 0019)	83	83		83			83	N-5				83	83					

SEE PAGE 13-1,... NOTES, FOR ITEMS LISTED BY NUMBER IN THIS COLUMN

PUKASKWA RIVER

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
1	International Bibis Tin Mines Ltd. (42C/04NE 0010-A1) (42C/04NE 0016-A1)	PK-1	1967	S15 W	-45	2.5	300.0	py, cp, fel, q	Cu, Au, Ag
1	International Bibis Tin Mines Ltd. (42C/04NE 0010-A1) (42C/04NE 0016-A1)	PK-2	1967	S15 W	-45	0.0	307.0	py, sp, po, q, fel, cp	Cu, Zn
1	International Bibis Tin Mines Ltd. (42C/04NE 0010-A1) (42C/04NE 0016-A1)	PK-5	1967	S15 W	-45	1.0	376.0	cp, py, q, hem	Cu, Au, Ag
1	International Bibis Tin Mines Ltd. (42C/04NE 0010-A1) (42C/04NE 0016-A1)	PK-6	1967	S15 W	-60	5.0	426.0	py, cp, q, hem	Cu
2	International Bibis Tin Mines Ltd. (42C/04NE 0010-A1) (42C/04NE 0016-A1)	PK-3	1967	S15 W	-45	4.0	269.0	cp, calc, q, cu, py, hem	Cu, sulf
2	International Bibis Tin Mines Ltd. (42C/04NE 0010-A1) (42C/04NE 0016-A1)	PK-4	1967	S15 W	-45	7.0	316.0	cp, py, q	Cu

DRILLHOLE SUMMARY		Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
Map Drill Loc. No.	Company Name								
3	International Bibis Tin Mines Ltd. (42C/04NE 0010-A1) (42C/04NE 0016-A1)	PK-7	1967	S15 W	-45	8.0	244.0	py, cp, sp, q	Cu, Zn
4	Captain Consolidated Resources Ltd. (WP-Pukaskwa River-2)	H-1	1986	S30 E	-45	7.0′	257.0′	py, cp, qv, po si, ch	Au
5	Captain Consolidated Resources Ltd. (WP-Pukaskwa River-2)	H-2	1986	S40 W	-45	7.0′	267.0′	py, po, cp, qv qcv, mag, IF, asp?, ep, ch, si	Au
6	Captain Consolidated Resources Ltd. (WP-Pukaskwa River-2)	H-3	1986	S30 W	-45	17.0′	257.0′	qv, gt, py, po cp	Au
7	Captain Consolidated Resources Ltd. (WP-Pukaskwa River-2)	H-5	1986	S30 W	-45	10.0′	269.0′	py, qcv, gt, calc, qv, hem	Au
8	Captain Consolidated Resources Ltd. (WP-Pukaskwa River-2)	H-6	1986	S	-45	6.0′	285.0′	qv, py, qcv, ep, hem, IF, carb	Au
9	Captain Consolidated Resources Ltd. (WP-Pukaskwa River-2)	H-8	1986	Grid S	-45	12.0′	227.0′	py, ch, mag, po, gt, cp, IF	Au

PUKASKWA RIVER

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
10	Captain Consolidated Resources Ltd. (WP-Pukaskwa River-2)	H-9	1986	Grid S	-45	22.0′	227.0′	ch, po, py, IF cp	Au
11	Koalo Resources Ltd. (WP-Pukaskwa River-5)	K-1	1988	180	-45	8.6′	436.0′	qv, qcv, py, si, jas?, gt, serp, carb, talc, po, ch	Au
12	Koala Resources Ltd. (WP-Pukaskwa River-5)	K-2	1988	180	-45	38.0′	396.0′	qv, py, po, gt si, carb, ep, qcv, gn	au
13	Koala Resources Ltd. (WP-Pukaskwa River-5)	K-3	1988	225	-45	8.0′	446.0′	gt, qv, py, cp carb, ep, jas si, po	Au
14	Koala Resources Ltd. (WP-Pukaskwa River-5)	K-4	1988	180	-45	2.0′	406.0′	carb, py, si, cp, qcv, asp, ep, qv, po, gt IF, serp	Au (2.17 @ 0.11oz/ton)
15	Koala Resources Ltd. (WP-Pukaskwa River-5)	K-5	1988	180	-45	12.0′	503.0′	py, gt, qv, po carb, mag, si talc, serp, jas, qcv	Au
16	Koala Resources Ltd. (WP-Pukaskwa River-5)	K-6	1988	180	-45	8.2′	442.0′	qv, py, po, gt carb, serp, jas	

PUKASKWA RIVER

DRILLHOLE SUMMARY		Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
Map Drill Loc. No.	Company Name								
17	Koala Resources Ltd. (WP-Pukaskwa River-5)	K-7	1988	180	-45	8.7'	546.0'	qcv, gt, py, po, talc, qv, jas?, si, mag carb	Au
18	Koala Resources Ltd. (WP-Pukaskwa River-5)	K-8	1988	303	-45	14.3'	416.0'	qv, py, jas, carb, qcv, si	Au
19	Koala Resources Ltd. (WP-Pukaskwa River-5)	K-9	1988	160	-45	13.5'	506.0'	qv, jas, ep, gt, py, po, si carb, qcv	Au
20	Koala Resources Ltd. (WP-Pukaskwa River-5)	K-10	1988	180	-45	7.0'	246.0'	qv, si, py, po jas, carb	Au
21	Villeneuve Resources Ltd. (WP-Pukaskwa River-9)	MO-88-01	1988	180	-45	3.6'	329.0'	qv, hem, qcv, po, py, carb	Au, Ag
22	Villeneuve Resources Ltd. (WP-Pukaskwa River-9)	MO-88-02	1988	140	-45	5.0'	529.0'	gt, carb, qv, po, qcv, lim, hem, fel, py	Au, Ag
23	Villeneuve Resources Ltd. (WP-Pukaskwa River-9)	MO-88-03	1988	140	-45	8.0'	251.0'	carb, lim, py po, qv, tour	Au, Ag

PUKASKWA RIVER

DRILLHOLE SUMMARY		Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
Map Drill Loc. No.	Company Name								
24	Villeneuve Resources Ltd. (WP-Pukaskwa River-9)	MO-88-04	1988	140	-45	9.0′	200.0′	carb, po, cp, py, qv, fel	Au, Ag
25	Villeneuve Resources Ltd. (WP-Pukaskwa River-9)	MO-88-05	1988	150	-45	8.0′	249.0′	gf, carb, py, lim, cal, po, gt, qcv, hem, q, qv	Au, Ag
26	Villeneuve Resources Ltd. (WP-Pukaskwa River-9)	MO-88-06	1988	135	-50	6.0′	329.0′	py, qcv, po, qv, tour, hem carb	Au, Ag

Map Index No.	AIRBORNE GEOPHYSICAL SURVEY DATA		Flight Altitude	Flight Line Direct.	Flight Line Spacing
	-by -for -year	Type of Survey			
4	-by Canadian Aero Minerals Surveys Ltd. -King Island Mines Ltd. -1969	-a. Mark IV low frequency in phase/out of phase electromagnetic system -b. Magnetometer -c. Gamma ray spectrometer	150′	N-S	1/16mile
8	-by Aerodat Ltd. -for Captain Consolidated Resources -1983	-a. Geometrics G-803 proton precession magnetometer -b. Aerodat/geonics 3 frequency Electromagnetic system -c. Herz Totem 2A VLF-EM system	150′ 100′ 150′	N-S	660′
11	-by Aerodat Ltd. -for Tundra Gold Mines Ltd. -1983	-a. Geometrics G-803 proton precession magnetometer -b. Aerodat/Geonics 3 frequency electromagnetic system -c. Herz Totem 2A VLF-EM system	150′ 100′ 150′	N-S	660′
12	-by Terraquest Ltd. -for Wasabi Resources Ltd. -1985	-a. Proton precession magnetometer -b. Herz Totem 2A VLF-EM system	100m	N-S	100m

PUKASKWA RIVER

Map Index No.	AIRBORNE GEOPHYSICAL SURVEY DATA		Flight Altitude	Flight Line Direct.	Flight Line Spacing
	-by -for -year	Type of Survey			
16	-by H. Ferderber Geophysics Ltd. -for Gabriel Resources Inc. -1988	-a. GEM systems GSM-11 proton (Overhauser) magnetometer -b. Herz Totem 2A VLF-EM system	300'	N-S	400'
17	-by H. Ferderber Geophysics Ltd. -for Villeneuve Res. Ltd. -1988	-a. GEM systems GSM-11 proton (Overhauser) magnetometer -b. Herz Totem 2A VLF-EM system	300'	N-S	400'
19	-by H. Ferderber Geophysics Ltd. -for Villeneuve Res. Ltd. -1989	-a. GEM systems GSM-11 proton (Overhauser) magnetometer -b. Herz Totem 2A VLF-EM system	300'	030 & 210	1250'
22	-by H. Ferderber Geophysics Ltd. -for Rise Resources Ltd. -1988	-a. GEM systems GSM-11 proton (Overhauser) magnetometer -b. Herz Totem 2A VLF-EM system	300'	N-S	400'
23	-by Terraquest Ltd. -for Daiwan Engineering Ltd. -1989	-a. Scintrex BIW 2321H8 magnetometer -b. Herz Totem 2A VLF-EM system	100m	360	100m

PUKASKWA RIVER

Map Site No.	GEOCHEMICAL SURVEY DATA		By	Reference(s)
	Type of survey	Analysis for		
1	Soil Sampling	Au	Captain Consolidated Resources	file 42C/04NE 0017-A1
2	Lake Sediment and Water Geochemical	Zn, Cu, Pb, Ni, Co, Ag, Mn, As, Mo, Fe, U, F	OGS-GSC	OGS OFR 5267
3	Stream and Spring Sediment	Cu, Ni, Zn, Co, Mn and cold extractable heavy metals	Wolfe, W.J. for the OGS	ODM GR 158 and 6 Maps
4	Soil & Rock Sampling	Au	Captain Consolidated Resources Ltd. Tee Lake Resources Ltd.	file 42C/04NE 0018
5	Soil Sampling	Au	Captain Consolidated Resources Ltd. Tee Lake Resources Ltd.	file WP-Pukaskwa River-1
6	Soil Sampling		Koala Resources Ltd.	file WP-Pukaskwa River-5
7	Rock Sampling	Au, Ag	Villeneuve Resources Ltd.	file WP-Pukaskwa River-6
8	Grab Sampling	Au, Ag, Cu, Zn	Villeneuve Resources Ltd.	file WP-Pukaskwa River-8
9	Soil Sampling at "B" Horizon & Humus & Rock Sampling	Au, Ag, As Ag, Au, Zn, Cu, Ni, As	Villeneuve Resources Ltd.	file WP-Pukaskwa River-9
10	Soil Sampling at "B" & "A" Horizon	Au, Ag, Cu, Zn	Tundra Gold Mines Ltd.	file 42C/03NW 0016

PUKASKWA RIVER

Map Site No.	GEOCHEMICAL SURVEY DATA		By	Reference(s)
	Type of survey	Analysis for		
11	Soil Sampling at "B" Horizon	Au, Ag, Cu, Zn, Pb	Tundra Gold Mines Ltd.	file 42C/03NW 0019

PUKASKWA RIVER

GEOCHRONOLOGY DATA – AGE DATING

Site No. on Map	Method	Material	Reference	Result

PUKASKWA RIVER

AERIAL PHOTOS; MOSAICS; IMAGERY

The following items are available for inspection at the Resident Geologist Office

(a) Aerial Photographs

1. 1"=1/4mile, black & white; see addenda (p. 15-1) for details

(b) Photomosaics

(c) Satellite Imagery

1. Canada Centre for Remote Sensing Side Aperture Radar - H880175 (C)93, May 1988 1:50 000 (Black & White)

2. Canada Centre for Remote Sensing Side Aperture Radar - H880173 (C)85, May 1988 1:50 000 (Black & White)

3. Experimental Composite of Airborne Radar (SAR) and Total Field Aeromagnetics, SAR Data Acquired 24-May-88 by CCRS Radar Development Program. Total Magnetic Field Derived From Digital Archives of OGS Map 81143 R. B. Barlow . Process at Ontario Centre for Remote Sensing/MNR 10-Feb-89 1:50 000

4. Experimental Composite of Total Field Shadow Aeromagnetics. Magnetics Derived From Digital Archives Ontario Geological Survey Map 81143. Processed at the Ontario Centre for Remote Sensing/MNR 29-May-90 1:100 000

TOPOGRAPHIC MAPS (selected)			
Scale	Year	Name and/or Number	By
1:50 000	1970	Pukaskwa River: NTS 42C/4	Surveys and Mapping Branch: Department of Energy, Mines and Resources
1:100 000	1979	Pukaskwa River: NTS 42C/SW and part of 42D/SE	Surveys and Mapping Branch: Ministry of Natural Resources

NEWSPAPER CLIPPINGS FILE

PAPER	ISSUE DATE(S)	PAGE	ARTICLE HEADLINE OR COMPANY AND/OR SUBJECT
Northern Miner	02/26/70		Miro Mines options new copper property to Phelps-Dodge
Northern Miner	04/23/70		Copper occurrence near Manitouwadge attracting attention Phelphs Dodge Corporation of Canada Limited
Northern Miner	05/28/70		Further testing by Phelphs Dodge on Miro ground
Northern Miner	06/11/70		Miro watches drilling on adjoining property
Northern Miner	07/30/70		Miro gets interest in base-metal mine
Northern Miner	10/13/83		Wasabi has completed reconnaissance work
Northern Miner	01/06/86		Chavin has not forgotten its 111 claims near Hemlo
Northern Miner	10/03/86		Capt. Consolidated to drill Mishibishu
George Cross Newsletter	06/05/87		Mishibishu claims optioned Captain Consolidated Resources
Northern Miner	09/21/87	3	Noranda dealing with San Paulo Mishibishu ground
Northern Miner	11/16/87		Villeneuve in Mishibishu

NEWSPAPER CLIPPINGS FILE			
PAPER	ISSUE DATE(S)	PAGE	ARTICLE HEADLINE OR COMPANY AND/OR SUBJECT
Northern Miner	07/11/88	16	Villeneuve stakes granites, expands in Mishibishu camp
George Cross Newsletter	07/14/88		Koala Resources limited
George Cross Newsletter	11/27/88		Kam Creed Option Interest at Mishibishu Koala Resources Limited
George Cross Newsletter	/ /87		Drill holes cut interesting gold at pukaskwa-Mishibishu Captain Consolidated Resources

OGS/ODM GENERAL INDEX SEARCH

Words Searched:

Burrex Mines Prospecting Syndicate

International Bibis Tin Mines Ltd.

King Island Mines Ltd.

Miro Mines Ltd.

Phelps Dodge Corp. of Canada Ltd.

Pukaskwa River

Index Volume	Listing:	Report Volume	Part	Page
1	Pukaskwa River, Lake Superior			
	Berries	8		147, 155
	Brook Trout	14	1	297
	Caribou	8		137, 138
	Fall in last 25 miles	14	1	286
	Gorges, photo	14	1	283,
	High hills	14	1	281
	Name, spelling of	8		133
	Notes by Bell, I.M.	14	1	283, 284
	Notes by Coleman	8		137, 138
	Rocks on and near	8		143
		14	1	313
	Conglomerate	8		142, 166
		11		167
		14	1	346
	Granite	14	1	336, 349
	Iron-bearing	14	1	305, 316
	Keewenawan	8		168
	Schists	14	1	306
	Trees	8		138
		14	1	296
	Waterpower	14	1	299
2	No Listings			
3	No Listings			

OGS/ODM GENERAL INDEX SEARCH

Words Searched:

Index Volume	Listing:	Report Volume	Part	Page
4	No Listings			
5	No Listings			
6	No Listings			
7	No Listings			
8	Burrex Prospect Pukaskwa R. Area, Thunder Bay Dist. Mining Property, Report on	MRC012		309
	International Bibis Property Pukaskwa R. Area, Thunder Bay Dist. Mining Property, Report on	MRC012		310
	International Bibis Tin Mines Ltd. Pukaskwa R. Area, Thunder Bay Dist.	MP017 MP022		17 33
	Pukaskwa Operation, Thunder Bay and Algoma Dist. Summary of Field work, 1968, by G. Bennett, P.C. Thurston and J.F. Giguere	MP022		31-34
	Pukaskwa River Area, Thunder Bay Dist. Copper/Zinc	MRC012		309-310
9	Burrex Mines Ltd. Pukaskwa R. Area, Thunder Bay Dist.	GR153		39
	Burrex Mines Prospecting Syn. Pukaskwa R. Area, Thunder Bay Dist.	GR153		49

OGS/ODM GENERAL INDEX SEARCH

Words Searched:

Index Volume	Listing:	Report Volume	Part	Page
	Burrex Occurrence Pukaskwa R. Area, Thunder Bay Dist. Report on Property	GR153		49
	International Bibis Prospect Pukaskwa R. Area, Thunder Bay Dist. Report on Property	GR153		49-50
	International Bibis Tin Mines Ltd. Pukaskwa R. Area, Thunder Bay Dist.	GR153		39,49
	King Island Mines Ltd. Pukaskwa R. Area, Thunder Bay	GR153		39
	Report on Burrex Occurrence	GR153		49
	Report on International Bibis Prospect	GR153		49-50
	Miro Mines Ltd. Pukaskwa R. Area, Thunder Bay Dist. Report on Property	GR153		51
	Phelps Dodge Corp. of Canada Ltd. Pukaskwa R. Area, Thunder Bay dist.	GR153		51
	Pukaskwa Area, Algoma and Thunder Bay Dist. Geochem. Study of the Area Report on, 1976 by W.J. Wolfe	GR158		
	Pukaskwa River Area, Algoma and Thunder Bay Dist. Report (quarternary) and map 5096 on, 1979 by John F. Gartner and D.F. McQuay	NOTS 072		
	Pukaskwa-University Rivers Area Algoma and Thunder Bay Dist. Copper	GR153		39-53

PUKASKWA RIVER

OGS/ODM GENERAL INDEX SEARCH

Words Searched:

Index Volume	Listing:	Report Volume	Part	Page
	Geology of the Area Report, maps 2332 and 2333 and Chart on, 1977 by G. Bennett and P.C. Thurston	GR153		

PUKASKWA RIVER

SELECTED REFERENCES			Reference	Map Scale and/or Reprt/Pages
Author	Date	Title		
Barlow, R. B.	1988	Total Magnetic Field Colour Image Developed from Digital Archives of the Ontario Geological Survey, Wawa Area, Districts of Thunder Bay, Algoma and Sudbury	OGS Geophysical/ Geochemical Series Map 81143	1: 100 000
Barlow, R. B.	1988	Calculated Second Vertical Derivative Colour Image Developed from Digital Archives of the OGS, Wawa Area, Districts of Thunder Bay, Algoma and Sudbury	OGS Geophysical/ Geochemical Series Map 81144	1: 100 000
Barlow, R. B.	1988	Directionally Shadowed Total Magnetic Field Colour Image Developed from Digital Archives of the OGS, Wawa Area, Districts of Algoma, Thunder Bay and Sudbury	OGS Geophysical/ Geochemical Series Map 81145	1: 100 000
Bell, J. M.	1905	Iron Ranges of Michipicoten (West)	OBM AR Vol. 14, Pt. 1, with Map 14a	p. 278-355 1: 126 720
Bell, R.	1901	Michipicoten District	GSC Sum. Rpt. 1900 (Vol. 13 pt. A)	p. 109-121
Bennett, G. Thurston, P. C.	1977	Geology of the Pukaskwa - University Rivers Area, Districts of Algoma and Thunder Bay	ODM GR 153 and 2 Maps	60 pages 1" =1mile

SELECTED REFERENCES			Reference	Map Scale and/or Reprt/Pages
Author	Date	Title		
Bennett, G. Thurston, P.C.	1972	Operation Pukaskwa, Districts of Algoma and Thunder Bay, Ontario	OGS OFR 5073	93 pages
Bennett, G. Thurston, P.C. Giguere, J.F.	1972	Pukaskwa River Sheet	ODM Map 2332	1"=1mile
Bennett, G. Thurston, P.C. Giguere, J.F.	1969	Operation Pukaskwa, Pukaskwa River Sheet, Districts of Thunder Bay and Algoma	ODM Prelim. Map P.506	1"=1mile
Bennett, G. Thurston, P.C. Giguere, J.F.	1969	Operation Pukaskwa	ODM Prelim. Map P.541	1"=2miles
Bennett, G. Thurston, P.C. Giguere, J.F.	1968	Summary of Field Work by the OGS, No.12, Operation Pukaskwa, Districts of Thunder Bay and Algoma	OGS MP 22	p.31-34
Bowen, R.P.	1986	Mishibishu Lake Area, Districts of Algoma and Thunder Bay	OGS MP 132	p.107-110
Bowen, R.P. Logothetis, J.	1985	Mishibishu Lake Area, Districts of Algoma and Thunder Bay	OGS MP 126	p.78-82

SELECTED REFERENCES			Reference	Map Scale and/or Reprt/Pages
Author	Date	Title		
Coleman, A. P.	1899	Map of the Western Part of the Michipicoten Mining Division, Algoma District	OBM Map 8b	1: 253 440
Coleman, A. P.	1899	Copper Regions of the Upper Lakes, Ontario	OBM AR Vol. 8, Pt. 2	p. 121-174
Gartner, J. F. McQuay, D. F.	1979	Pukaskwa River Including Michipicoten Island: Northern Ontario Geology Terrain Study	NOEGTS Study 72 with Map 5096	14 pages 1: 100 000
Heather, K. B.	1985	Gold Showings of the Mishibishu Lake Area, Thunder Bay District	OGS MP 126	p. 83-89
Milne, V. G. et al	1972	Manitouwadge - Wawa Sheet	ODM Map 2220	1" =4miles
ODM-GSC	1963	Aeromagnetic Map: Pukaskwa River	ODM-GSC Aeromagnetic Series Map 2165G	1" =1mile
OGS-GSC	1979	Regional Lake Sediment and Water Geochemical Reconnaissance	OGS OFR 5267 and 16 Maps	83 pages 1: 250 000

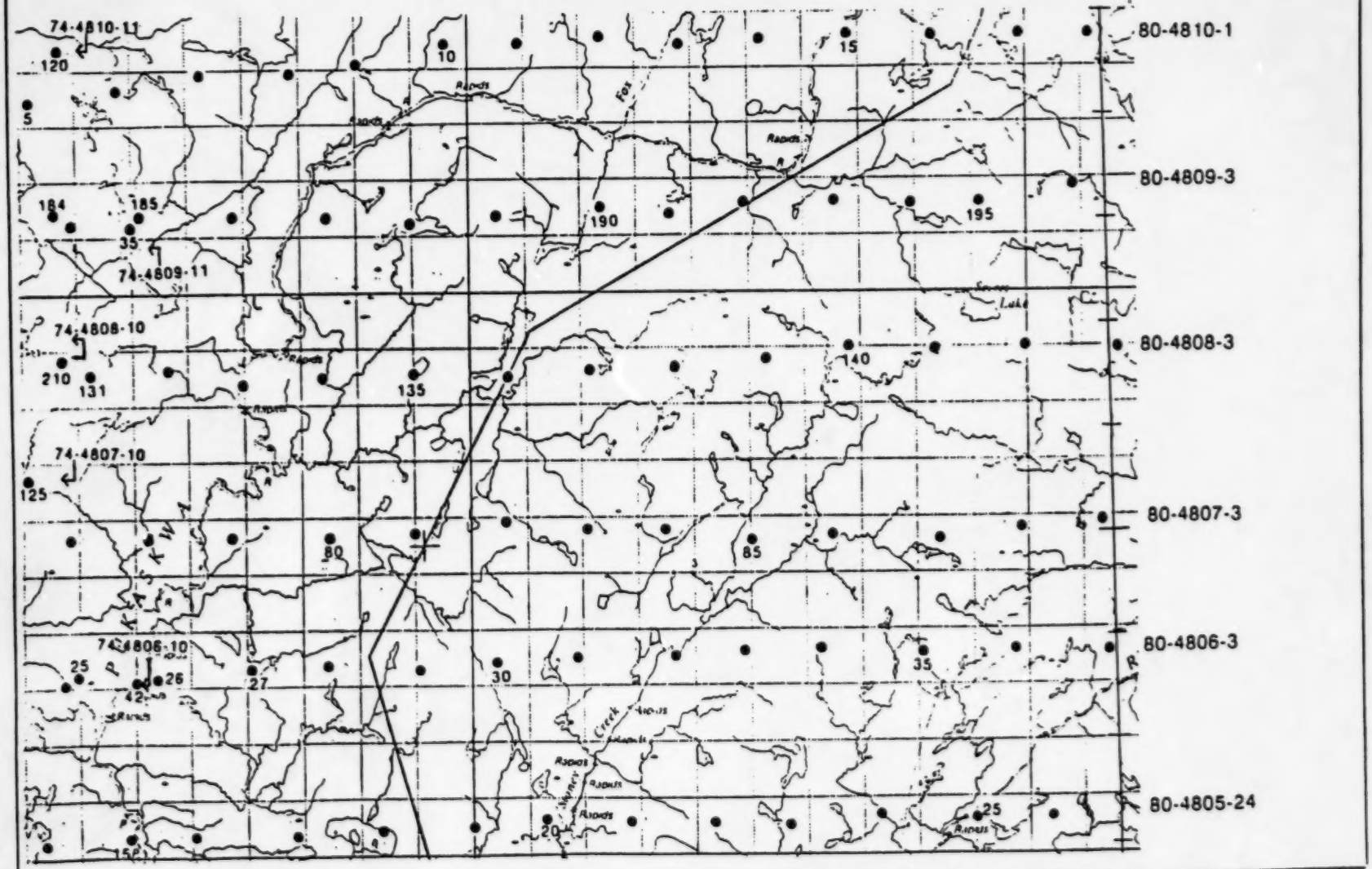
SELECTED REFERENCES			Reference	Map Scale and/or Reprt/Pages
Author	Date	Title		
Reid, R.G. Reilly, B.A.	1987	Mishibishu Lake Area, Districts of Algoma and Thunder Bay	OGS MP 137	p. 138-145
Sage, R.P.	1987	Geoscience studies in the Wawa Region	OGS MP 137	p. 132-133
Springer, Janet	1977	Ontario Mineral Potential: White River Sheet	OGS Prelim. Map P. 1519	1: 250 000
Wolfe, W.J.	1976	Regional Geochemical Reconnaissance of Archean Metavolcanic - Metasedimentary Belts in the Pukaskwa Region	ODM GR 158	54 pages
Wolfe, W.J.	1973	Regional Geochemical Reconnaissance of Archean Metavolcanic - Metasedimentary Belts in the Pukaskwa Region, Algoma and Thunder Bay Districts	OGS OFR 5091	62 pages
Wolfe, W.J.	1973	Geochemical Reconnaissance in Archean Metavolcanic - Metasedimentary Belts of the Pukaskwa Region, Ontario	Can. Inst. of Min. and Met. Vol. 66	p. 75-83
Wolfe, W.J. Wright, G.R.	1969	Operation Pukaskwa, Districts of Thunder Bay and Algoma: Cold Extractable Heavy Metals in Stream and Spring Sediments	ODM Prelim. Map P. 508	1" =1mile

SELECTED REFERENCES			Reference	Map Scale and/or Reprt/Pages
Author	Date	Title		
Wolfe, W. J. Wright, G. R.	1969	Operation Pukaskwa, Districts of Thunder Bay and Algoma: Geochemistry of Copper in Stream and Spring Sediments	ODM Prelim. Map P. 509	1" = 1mile
Wolfe, W. J. Wright, G. R.	1969	Operation Pukaskwa, Districts of Thunder Bay and Algoma: Geochemistry of Zinc in Stream and Spring Sediments	ODM Prelim. Map P. 510	1" = 1mile
Wolfe, W. J. Wright, G. R.	1969	Operation Pukaskwa, Districts of Thunder Bay and Algoma: Geochemistry of Manganese in Stream and Spring Sediments	ODM Prelim. Map P. 511	1" = 1mile
Wolfe, W. J. Wright, G. R.	1969	Operation Pukaskwa, Districts of Thunder Bay and Algoma: Geochemistry of Nickel in Stream and Spring Sediments	ODM Prelim. Map P. 512	1" = 1mile
Wolfe, W. J. Wright, G. R.	1969	Operation Pukaskwa, Districts of Thunder Bay and Algoma: Geochemistry of Cobalt in Stream and Spring Sediments	ODM Prelim. Map P. 513	1" = 1mile

Note #	NOTES
0	This GDIF covers NTS area 42C/04NE which is known as the Pukaskwa River area.
0	Brief computer based index level data files pertaining to mineral occurrences in this area may be found in: Rose, D.G. 1985: Mineral inventory of the Sudbury-Timmins-Sault Ste. Marie Region, Ontario; Geological Survey of Canada Open File 1087
1	These files (42C/04NE 0019 & 0020) contain information on the David Lakes Area only.
2	This file (42C/04NE 0014-B1) contains a sampling program completed in 1972.
3	This file (42C/04NE 0017-A1) contains a sampling program completed in 1983.
4	The following is a list of Wawa file numbers with their corresponding Toronto (Assessment Files Research Office) file numbers: WP-Pukaskwa River-1 - 2.9668 WP-Pukaskwa River-2 - DD.11 WP-Pukaskwa River-3 - 2.11088 WP-Pukaskwa River-4 - 2.11324 WP-Pukaskwa River-5 - 2.11809 WP-Pukaskwa River-6 - 2.12372 WP-Pukaskwa River-7 - 2.12671 WP-Pukaskwa River-8 - 2.12373 WP-Pukaskwa River-9 - 2.12497 WP-Abbie Lake-3 - 2.11298 WP-Pukaskwa River-10 - 2.13064
5	This file (42C/03NW 0019) contains information that pertains only to the Abbie Lake area for work done for geology, drilling, ground magnetic and ground electromagnetic. The geochemical work that was done pertains to Abbie Lake and Pukaskwa River areas.

ADDENDA

Map showing air photos available for viewing at Wawa Resident Geologist's Office, see p.9-1



PUKASKWA RIVER

CONVERSION FACTORS

Conversion from SI to Imperial			Conversion from Imperial to SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
		LENGTH			
1 mm	0.039 37	inches	1 inch	25.4	mm
1 cm	0.393 70	inches	1 inch	2.54	cm
1 m	3.280 84	feet	1 foot	0.304 8	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	1.609 344	km
		AREA			
1 cm^2	0.155 0	square inches	1 square inch	6.451 6	cm^2
1 m^2	10.763 9	square feet	1 square foot	0.092 903 04	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
		VOLUME			
1 cm^3	0.061 02	cubic inches	1 cubic inch	16.387 064	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
		CAPACITY			
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	4.546 090	L
		MASS			
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	31.103 476 8	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	0.453 592 37	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	907.184 74	kg
1 t	1.102 311	tons (short)	1 ton (short)	0.907 184 74	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	1016.046 908 8	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	1.016 046 908 8	t
		CONCENTRATION			
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy) per ton (short)	20.0	pennyweights per ton (short)
1 pennyweight per ton (short)	0.05	ounces (troy) per ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm)

Note: Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries, published by the Mining Association of Canada in cooperation with the Coal Association of Canada.

For further information please contact:

Wawa Resident Geologist's Office
Ministry of Northern Development and Mines
Helen Mine Road
P.O. Box 530
Wawa, Ontario
P0S 1K0
705-856-4883

MAP LEGENDS

A. FILES INDEX MAP

FILE AREAS See pages 4-1,2 .... of text

- ■ Reference number is always inside work area outlined. See listing in text pages.
- □ Small area of exploration data
- □ File covers whole township or area
- □

B. EXPLORATION DATA MAP

MINERAL OCCURRENCES: See pages 3-1,2... of text

- ■ Mineral occurrence at surface, with reference letter
- □ Mineral occurrence with shaft, depth given with reference letter
- □ Mineral occurrence reported but exact location uncertain, with reference letter
- □ Mineralized float with reference letter
- □ Mineral occurrence encountered in drilling, with reference letter
- □

DRILLHOLES: See pages 5-1,2... of text

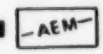
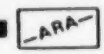
- ■ Location of single drillhole, with reference number
- □ Location of group of closely spaced drillholes, with reference number
- □ Drillhole, exact location uncertain, with reference number
- □ Property with underground drillholes in this general area, with reference number
- □ Property with drillholes which have not been plotted on map, with reference number
- □ Reverse circulation drillhole; churn drilling, with reference number
- □

GEOCHEMICAL: See pages 7-1,2...of text

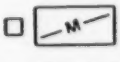
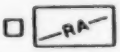
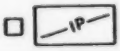
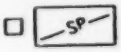
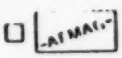
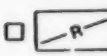
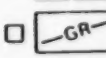
- ■ Geochemical sample site, with reference number
- ■ Area of geochemical sampling, with reference number
- □

GEOPHYSICAL ANOMALIES

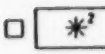
Airborne Surveys: See pages 6-1,2... of text

- □ Airborne magnetic anomaly
- ■ Airborne electromagnetic anomaly Length of anomaly along flight line
- ■ Airborne electromagnetic anomaly Location of anomaly along flight line
- ■ Airborne electromagnetic anomaly Conductor axis: definite, probable, possible
- ■  Airborne electromagnetic anomaly Conductor axis: Location of flight lines uncertain
- ■  Airborne radiometric anomaly

Ground Surveys

- □  Ground magnetic anomaly
- ■ Ground electromagnetic anomaly (VL - Vertical loop, HL - Horizontal loop VLF - Very low freq., Turam, JEM Crone Em - 16)
- □  Ground radiometric anomaly
- □  Induced polarization anomaly
- □  Self potential anomaly
- □  Audio frequency magnetic anomaly (total intensity)
- □  Resistivity anomaly
- □  Gravity anomaly
- □

GEOCHRONOLOGICAL DATA: See page 8 of text

- □  Age dating material sampling site, with reference number
- □

MISCELLANEOUS DATA

- □ Trenching, pit
- □ Adit
- □ Sand and/or gravel pit
- □
- □ Rock quarry
- □ Open pit
- □

MAPS
NOT
FILMED

CARTES
OMISES